

ORIGINAL (Pad)

ENVIRONMENTAL PRIORITY INITIATIVE

PRELIMINARY ASSESSMENT

OF

COMPU DYNE, VEGA PRECISION LABORATORIES

VA-469

AKA. General Indicator Corp.

Submitted By:

Commonwealth of Virginia

Department of Waste Management

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Prepared By:

Russell A. Dudley

Environmental Program Analyst

unell O. Ridle

Superfund Program

Reviewed By:

Paul W. Kohler HRS Supervisor

Superfund Program

Approved By:

J.D. modera

Thomas D. Modena Pre-remedial Program Manager

Superfund Program

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1.0 BACKGROUND INFORMATION

1.1 Site Location

Vega Precision Laboratories (a wholly owned subsidiary of Compu Dyne, Incorporated) is located in Vienna, Virginia at 800 Follin Lane. Its site coordinates are $38^{0}54'05"$ N and $77^{0}15'30"$ W (figure 1).



Figure 1 Site Location Map

1.2 Site Layout

The Vega Precision Laboratories (VPL) facility consists of one 120,000 ft² primary building and a 1800 ft² auxiliary building (figures 2 & 2a). The primary building encompasses the bulk of the facility's operations including administration, engineering, production, and quality assurance. The auxiliary building serves as the facility's paint shop.

1.3 Site History

VPL began operations at its present Vienna, Virginia location on April 22, 1972. In 1979 the facility was sold to Compu Dyne, Incorporated. For a short time, VPL was a part of the General Indicator Group and the Robintech Group of Compu Dyne, Incorporated. VPL is currently a wholly owned subsidiary of Compu Dyne, Incorporated.

On September 11, 1981, VPL received Interim Status from the Agency subject Environmental Protection States regulations promulgated under the Resource Conservation Recovery Act (RCRA); however, according to VPL personnel, the filing for Interim Status was a mistake as the RCRA definition of According to a letter dated "container" was misinterpreted. September 19, 1986, from Robert Roland, VPL Vice President, to Renee Tyson, VDWM Chemist, VPL "never stored hazardous waste in containers for over 90 days nor did they ever treat waste in Based on this and other hazardous material quantity tanks." information, the VDWM decided to begin the process to terminate the facility's Interim Status. However during a site inspection, two 55-gallon drums of paint sludge and solvents were found being stored on-site. These drums contained paint sludge and solvents generated off-site by Company personnel painting VPL produced equipment (Appendix D). This transportation and storage of offsite generated wastes actually activated the Interim Status. was subsequently ordered to submit a closure plan for the drum storage area. On May 23, 1989, Erica Dameron, VDWM Environmental Engineer, certified in writing that all necessary actions as required by the closure plan had been completed (Appendix D). August 17, 1990, VDWM Pre-Remedial Superfund Program personnel, in cooperation with the United States Environmental Protection Agency CERCLA and RCRA programs, performed an Environmental Priority Initiative site visit.

2.0 ENVIRONMENTAL SETTING

2.1 Population

Based on 1989 population estimates from the Northern Virginia Regional Planning District, the population within a four mile

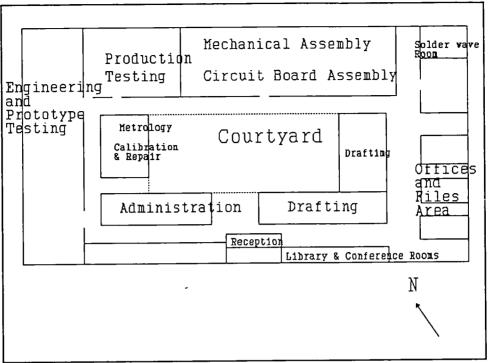


Figure 2 Vega Precision Labs; 1st Floor

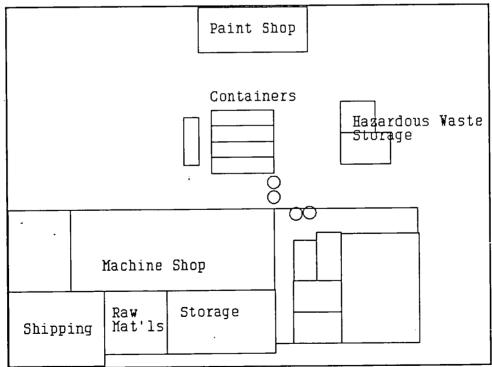


Figure 2a Vega Precision Labs; Basement

radius of the site is 129,389, within a three mile radius is 78,685, within a two mile radius is 40,267, within a one mile radius is 10,066, and within a one quarter mile radius is 2516.

2.2 Climate and Topography

Average annual precipitation, as recorded by the Vienna WSO AP station, is 45.64 inches (116 cm.). The highest normal monthly precipitation is in August and is 4.68" (11.89 cm.) and the lowest is in February and is 2.71" (6.88 cm.). Taking into account potential evaporation, the average annual precipitation is 11.51 inches. The average yearly temperature is 55.4°F with January having the lowest average monthly temperature, 35.2°F, and July having the highest average monthly temperature, 78.9°F.

The site is situated at approximately 450 feet above mean sea level near the top of a northwesterly sloping ridge.

2.3 Land use

A two mile radius of the site includes the town of Vienna and part of the city of Falls Church. Within a two mile radius, land use is predominately commercial and high density residential. As one moves farther east and west of the site, farther into Falls Church and closer to the city of Fairfax, high density land use greatly increases. Commercial activity decreases to the west as the number of single family, suburban dwellings increase.

2.4 Geology and Soils

Compu Dyne is located within the Piedmont Physiographic Province of Virginia. The Piedmont of Virginia is characterized by an extensive complex of igneous and metamorphic rocks, Pre-Cambrian to Paleozoic in geologic age, underlying thick layers of saprolite. Although no geologic maps exist for the Vienna, Virginia area, it can be determined through the use of existing geologic maps for surrounding areas and United States Department of Agriculture Soil Surveys, that the Wissahickon formation most likely underlies the site.

In Virginia, the Wissahickon formation consists of phyllite, mica schist, phyllitic schist, and quartzite. Based on Soil Survey information, the schist facies of the Wissahickon formation appears to underlie the site. The principal constituents of the schist are quartzite, sericite, and chlorite. Minor constituents include pyrite, magnetite, and ilmenite. Schistocity of the formation generally follows a northeastward trend and the strike of the formation generally ranges from N 170 W to N 530 E. An extensive system of vertically dipping joints, striking northwest to west, and another system of joints, dipping approximately N 300 SE and striking northeast, occurs throughout Fairfax County (Johnston, 1963).

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The Wissahickon formation weathers rapidly producing red to yellow micaceous silt loams. According to a USDA Soil Survey of Fairfax County, either the Glenelg or Beltsville silt loam soil series underlie the site. While both soil series are derived from sericite schists, the Beltsville is typically more poorly drained than the Glenelg and exhibits fragipan (thin, dense, sandy horizons) characteristics. Depth to bedrock generally is approximately 100 feet on uplands, 95 feet on hilltops, and 60 feet in gullies. Typical soil profiles are as follows (Porter, Elder, and Henry, 1963):

Beltsville

0"-7"	yellow-brown friable silt loam	
7"-17"	strong brown, firm, heavy silty clay loam	
17"-19"	mottled strong brown, yellow brown, reddish yellow firm silty clay loam; transition to fragipan layer	
19"-48"	dark brown loam to silt loam, mottled with light gray and pale brown; fragipan layer	
48"+	soft, highly weathered sericite schist	
	Glenelg	
0"-7"	yellow-brown, very friable silt loam	
7"-18"	yellowish-red, friable silty clay loam, containing small flakes of mica	
18"-24"	strong brown, friable to very friable, silt loam	
24"+	light reddish-brown, highly weathered quartz sericite schist	

3.0 HYDROLOGY

3.1 Ground Water

Groundwater within the Piedmont Physiographic Province typically occurs within two distinct, but interconnected, zones. The uppermost zone is comprised of soil and saprolite. The saprolite has hydrologic characteristics of unconsolidated sediments but its permeability is lower due to its residual nature and high clay content. This zone acts as a recharge zone for the lower bedrock zone. Groundwater within the bedrock zone typically occurs within fractures and joints created by structural deformation and within more porous metasedimentary rocks.

3.2 Surface Water

Wolftrap Creek is located less than 0.25 miles north of the facility. Wolftrap Creek flows in a northwesterly direction for approximately 5.5 stream miles until confluencing with Difficult Run. Difficult Run flows for approximately 3.5 stream miles until finally spilling into the Potomac River at Great Falls National Park. Based upon information gathered from a gaging station located at Great Falls National Park, the average flow of Difficult Run is 35 cubic feet per second.

3.3 Water Supply

The area surrounding VPL is supplied potable water by the Fairfax County Water Service Authority (FCWSA). The FCWSA receives water from the Occoquan River approximately thirteen miles south of the site and from the Potomac River, approximately eight miles north of the site, upstream of the Difficult Run-Potomac River confluence.

4.0 WASTE HANDLING AND DISPOSAL PRACTICES

4.1 Process Description

Vega Precision Laboratories manufactures transponders, command and control systems, antennas, and special test equipment for government and commercial customers throughout the world. VPL's equipment provides primarily for the tracking and remote control of airborne vehicles.

There are basically five departments within Vega Precision Laboratories. These are the Production Department, the Testing Department, the Engineering Department, the Quality Assurance Department, and the Administrative Department.

The Production Department, located at the northeast side of the primary building, consists of two sections: the assembly operations and the assembly operations' support processes. The assembly operations can be further broken down into "circuit board assembly" and "mechanical assembly." Operations within the circuit board assembly area include soldering, bonding, and staking, and as its name implies, the actual assembly of the circuit boards The mechanical assembly area combines circuit takes place here. boards assembly along with numerous other subassembly components into fubctional equipment packages. Operations in the mechanical assembly area include bonding, marking, wiring, etc. quantities of cleaners and solvents are used in both of these areas and a small amount of waste solvents accumulate. (Appendix C) is often removed in the mechanical assembly during disassembly of suspect defective parts. Eccofoam acts as an insulator and protects the circuits boards from shock generated by

flight ignition forces.

The support processes for the assembly operations can also be further broken down into a machine shop and a paint shop. machine shop actually fabricates the aluminum, brass, steel, and polymers to be used in the assembly of the transbonders. To inhibit corrosion, the aluminum undergoes a chromate conversion plating process. The conversion process consists of two primary First the metal is "etched" in a 120 gallon tank filled with a sodium hydroxide solution. This removes excess metals on the surface of the metal. After rinsing the "etched" metal is dipped into a solution of chromic acid (120 gallon tank). addition to inhibiting corrosion, the conversion process also increases the conductivity of the metal and creates a more paint The waste rinsewater is non-toxic and is adhesive coating. discharged into the local public water treatment system. chromic acid solution is used until exhaustion and is then stored in the corrosive chemical storage container (SWMU #7) until it is picked up by Laidlaw Environmental Services. The conversion room is located in the basement of the primary building. During the fabrication of the metal parts in the machine shop, Trimsol® (Appendix C) is used as a cooling and lubricating fluid.

The Testing Department is located on the first floor of the primary building and its primary functions are to electronically test the completed transbonders and to repair malfunctioning transbonders. Before a transbonder can be taken apart to be repaired, the Eccofoam must first be dissolved with Dynasolve^R, thus creating small quantities of waste solvents.

The Engineering Department, located on the first floor, on the northwest side of the primary building, is responsible for the design and prototype testing of the transbonders and their subcomponents. Within the Engineering Department there are two small production and testing areas. These small areas perform the same functions as the larger Production and Testing departments, just on a much smaller scale. Drafting, located on the opposite side of the first floor in the primary building, is also part of the Engineering Department.

The Quality Assurance Department's primary responsibility is to ensure the integrity of anything used during the production process. Quality Assurance Inspectors routinely check for and confiscate out-of-date chemicals. The Quality Assurance Department also inspects and performs small scale repairs of the electronic and mechanical equipment used to build the transbonders.

The Administrative Department, located on the first floor on the southwest side of the primary building, is responsible for the day-to-day administrative and managerial functions at VPL.

4.2 Solid Waste Management Units

The definition of a Solid Waste Management Unit (SWMU), according to the EPA, is "any landfill, surface impoundment, waste pile, land treatment unit, incinerator tank, container storage unit, injection well, wastewater treatment units elementary neutralization unit, transfer station, and recycling unit that received solid or hazardous waste at any time." For purposes of this report, the SWMUs will be separated into existing SWMUs as shown in figures 3 and 3a and those existing as of June 30, 1989 as shown in figures 4 and 4a. The number of satellite SWMUs has substantially decreased since 1989 due to production decreases. VPL currently operates three primary SWMUs and four satellite collection SWMUs. Hazardous wastes are dated on the first day of accumulation in the primary SWMUs while they are not dated while at the satellite stations. Laidlaw Environmental Services picks up the facility's hazardous wastes.

4.2a Existing SWMUs

SWMU #1- Solder Wave Room Satellite Storage Area

SWMU #1, located in the Solder Wave room within the primary building, consists of two five gallon plastic chemical containers. These two containers are situated within a chemical storage cabinet. One five gallon container stores fluxes, cleaners, and solvents from the Production Department. The second five-gallon container stores Dynasolve 170^R and waste Eccofoam^R from the Production Testing Department. Material Data Safety Sheets for these two materials can be found in Appendix C. SWMU #1 began accepting wastes in March 1990. There are no plans, at this time, for the closure of this SWMU.

SWMU #2- Vapor Degreasing Satellite Storage Area

Located in the basement of the primary building, in the hallway next to the machine shop, SWMU #2 consists of one 55-gallon drum which stores vapor degreasing solvents, primarily Blaco-Tron^R. There is not, nor has there ever been, a containment system for this SWMU. SWMU #2 has been in operation since 1982 and there are no plans for closure at this time.

SWMU #3- Paint Shop Satellite Storage Area 1

Located in the northeasternmost section of the Paint Shop, SWMU #3 consists of a five gallon metal container used to store waste HumiSeal^R (Acrylic Resin, Polyurethane Resin, Surfactants and Solvents). This SWMU has been in operation since the Paint Shop was built in 1988 and there are no plans for closure at this time.

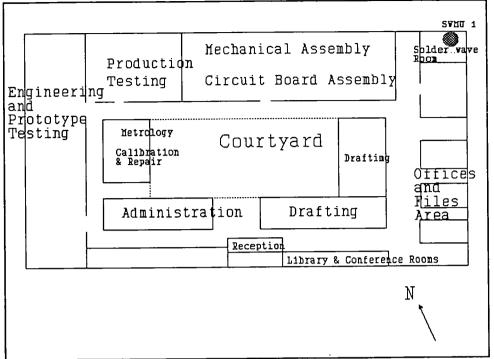


Figure 3 Existing SWMUs; 1st Floor

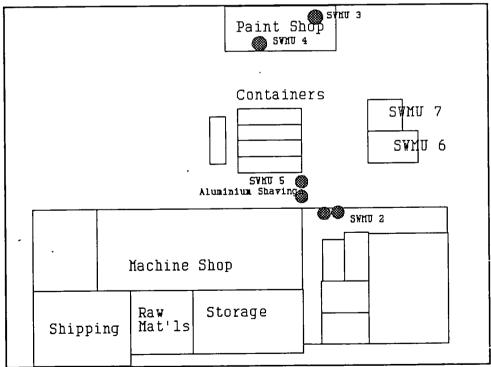


Figure 3a Existing SWMUs; Basement

SWMU #4- Paint Shop Satellite Storage Area 2

SWMU #4, located in the westernmost section of the Paint Shop, consists of one 55-gallon drum and is used to store paint related wastes. This SWMU has been in operation since the paint shop was built in 1988.

SWMU #5- Machine Shop Shavings Accumulation Area

SWMU #5, located outside and behind the primary building, is the storage area for the aluminum shavings from the machine shop. At the time of the site visit, seven 55-gallon drums of aluminum were being stored at this SWMU. In addition to the aluminum shavings, a small quantity of Trim Sol^R (a cutting and grinding fluid) waste is stored in these drums. The drums are stored on a wood platform covered by a sheet metal awning.

SWMU #6- Flammable and Solvent Waste Storage Area

swmu #6 is located behind the primary building and is actually a freight container used in the trucking industry for maritime transportation. The container is used to store both raw materials and hazardous wastes. The wastes are kept in the northeast corner of the container. Wastes contained within SWMU #6 are compatible flammable and solvent wastes. This SWMU is considered a primary storage area and each satellite hazardous waste container brought into the SWMU is dated and stored for no more than 90 days before being taken by Laidlaw Environmental Services. No containment system exists within the container nor is there a physical barrier separating the raw products from the wastes. At the time of the site visit there were two five gallon plastic containers and a box partially full of paint type cans containing various wastes. Included in the wastes stored at this SWMU are isopropyl alcohol, Blaco Tron⁸, and Oakite 33⁸.

SWMU #7- Corrosive Waste Storage Area

SWMU #7 is located next to SWMU #6 and is also a freight container; however, it is slightly smaller. This SWMU also stores raw materials as well as corrosive hazardous wastes. At the time of the site visit, only one, 1/2 full, 55-gallon plastic drum of wastes was in the container. No containment system exists within the container nor is there a method of separating the raw products from the wastes.

4.2b SWMUs as of June 30, 1989

SWMU #1- Data and Publications Satellite SWMU

This former SWMU was located in the subassembly test repair section of the Engineering Department. The five-gallon plastic container was used to collect Dynasolve 17/0/Eccofoam. The use of



this satellite storage area was terminated early in 1990.

SWMU #2 and #3- Production Room Satellite Storage Areas

These SWMUs were located in the former production area in the western section of the primary building. Each consisted of no more than four five-gallon plastic containers and were used for the same purposes as SWMU #1 in the Existing SWMU section. The use of these SWMUs was discontinued early in 1990 when the Solder Wave Satellite Accumulation Room began accepting wastes.

SWMU #4- Potting and Conformal Coating Room Satellite Storage
Area

Prior to the Paint Shop being built, the facility rented space from a local painting shop. There were times, however, when some small scale painting operations were needed to be performed at the facility. This SWMU, formerly located in the basement at the western side of the building was used as a satellite station for the paint wastes. This SWMU was eliminated after the paint shop was built.

SWMU #5- Vapor Degreasing Satellite Storage Area

Please see SWMU #2 in the Existing SWMU section of this report.

SWMU #6- Corrosive Wastes Storage Area

This SWMU was located behind the primary storage building across from the existing SWMU #7. Please see SWMU #7 for a description of the container and wastes stored within the SWMU. This SWMU ceased accepting wastes early in 1990.

SWMU #7- Flammable and Solvent Waste Storage Area

Please see SWMU #6 in the Existing SWMU section of this report for a complete description of this SWMU and the wastes contained within it.

SWMU #8- Oxidizer Waste Storage Area

Please see SWMU #7 in the Existing SWMU section of this report for a full description of this SWMU.

SWMU #9- Paint Shop Satellite Storage Area

Please see SWMU #3 in the Existing SWMU section of this report for a full description of this SWMU.

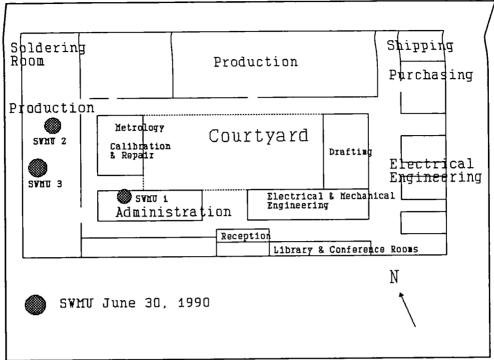


Figure 4 SWMUs June 30, 1989; 1st Floor

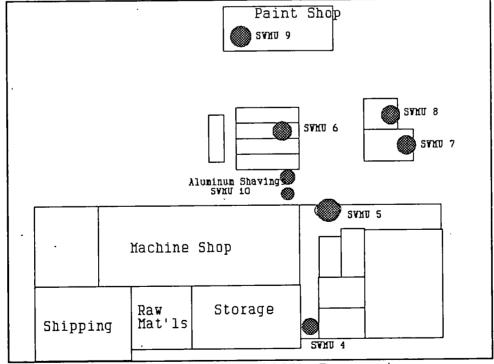


Figure 4a SWMUs June 30, 1989; Basement

SWMU #10- Machine Shop Shavings Accumulation Area

Please see SWMU #5 in the Existing SWMU section of this report for a complete description of this SWMU.

5.0 EXPOSURE ASSESSMENT

5.1 Ground Water

The potential for ground water contamination from the processes at the Vega Precision Laboratories is considered moderate as none of the SWMUs on-site have containment systems. However, the facility does have spill containment equipment located throughout the facility.

5.2 Surface Water

The site is located less than 0.25 miles from Wolftrap Creek, which eventually flows into the Potomac River. Based on this fact and on the fact that containment systems do not exist for any of the SWMUs, the potential for surface water contamination is considered moderate.

5.3 Direct Contact

Based on the fact that all of the facility's SWMUs are either inside the two buildings or are locked (in the case of the existing SWMUs #6 and #7), the potential for direct contact with the hazardous wastes on-site is considered negligible.

5.4 Food Chain

Based on the information contained within this report and on the fact that there are no agricultural lands located within the vicinity of the site, the potential for food chain contamination is considered negligible.

5.5 Air Contact

The potential for atmospheric contamination does exist as the facility does handle a number of volatile materials, however the potential is considered low as the volatiles are usually contained within covered drums.

REFERENCES

- Knappenburger, C. University of Virginia State Climatology Office Research Assistant
- Kolb, William, Associate Engineer for Vega Precision Laboratories, site visit August 17, 1990
- Northern Virginia Planning District Commission, Annandale Virginia
- United States Department of Agriculture, Fairfax County Soil Survey, 1963
- United States Geological Survey, 7.5' Topographic Quadrangles, Vienna, Falls Church, Annandale, and Fairfax, Virginia
- Virginia Water Control Board, Planning Bulletin 345, March 1988

Appendix A
Photographic Log

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VEGA PRECISION LOGS

Vienna, VA.

August 17, 1990

SWMO #1 Solderware Room - storing

Reduction Dept. wastes; Z, 5-gallen

Containers



VEGA PRECISION LARS

Vienna, VA.

wastes

August 17, 1990

swhutz- Drum storing vagor degressing



VEGA PRECISION LAGS Vienna, VA.

August 17, 1990

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SWMU# 3 located inside Cant Shop.



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BOB'SO 81548 NNNNA

VEGA (RECISION CAB)

August 17, 1990

Vienna, Vr.



VEGA PLECISION CASS

VIENNA, VA,

August 17, 1990

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Process



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808,20 01240 HMMMH

VEGA PRECISION LA 25 Vienna, Vm. August 17, 1998 SWIMUS 6, 7 - Primary SWIMUS for Flammables, 50 lients Corrossives



VEGA PRECISION LATES

Yienna, VA.

August 17, 1990

SWMU# 6 - inside container, showing small area for horzordous wester



BOBSEO 01240 NAMAR VEGA PRECISION LARS

AUGUST 17, A90

to right

ortside view of swhus # 6 E

#7 shawing empty drums outside



VEGA PRECISION LASS

RUGUST 17, 1990

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LOCKING WISTOR SWMJ #7; HIVE

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Appendix B EPA Preliminary Assessment Forms

ORIGINIA

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PRELIMINAR	RY ASSESSMENT TA 1.60
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Vienna	VA
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFIC TO TO STATE OF STATE OF SITE NUMBER VA 469(Red)

7) Er		- CHARACTES	STICS				
WASTE ST	ATES, QUANTITIES, AN	D CHARACTER	ITY AT SITE	03 WASTE CHARACTER	RISTICS (Check all Inal abo	17 1	
PHYSICAL ST	ATES (Check as Inal apply)	Measures C	J waste Quantities	IT A TOXIC	C E. SOLUBI	E I, HIGHLY VO	LATILE E
	C E. SLURRY	must 00	independent)	THE CORROS	IVE C F. INFECT	IOUS LIKE BEACTIVE	
A. SOUD	I, FINES XF, UQUID	MI .		C RADIOAC		· · · INICOMPA	TIBLE
C. SLUDGE	L G. GAS	CUBIC YARDS		2 5		_ M. NOT 74	
D. OTHER	[Specity]	NO. OF DRUMS	<12				
. WASTE T			01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
CATEGORY	SUBSTANCE	NAME.					
SLU	SLUDGE				<u> </u>		
OLW	OILY WASTE						
SOL	SOLVENTS			<u> </u>		· ·	
PSD	PESTICIDES			<u> </u>			
	OTHER ORGANIC	CHEMICALS	<u> </u>				
occ	INORGANIC CHEM				<u> </u>		
10C							
ACD	ACIDS	<u> </u>					
BAS	BASES				<u></u>		
MES	HEAVY METALS		CAS Numbersi				06 MEASURE CONCENTRAT
IV. HAZARDOUS SUBSTANCES (See Appendix for most free		03 CAS NUMBER	04 STORAGE/DI	SPOSAL METHOD	05 CONCENTRATION		
01 CATEGORY 02 SUBSTANCE NAME		00 07 27 2	Drums		90	<u> </u>	
SOL	Trichlorotrifluorotehane		76-13-1			9	%
	Ethvl Alcohol		64-17-5	Drums		1	1 %
SOL	Methl Alcoho		67-56-1	Drums		60-80	%
SOL	2-methoxyeth	anol	109-86-4	Drums		2-4	1 %
SOL	Potassium Hy	droxide	1310-58-3	Drums		100	7%
SOL	Potassium my		1330-20-7	Drums		100	1 %
SOL	Xvlene		17664-38-2	Drums		1 65	1 %
SOL	Phosphoric A	<u>cid</u>	111-76-2	Drums		18	1 %
SOL	12-Butoxyetha	nol	111-70-2	Drums		15	<u> / </u>
SOL	Methyl Ethyl	Ketone	78-93-3	Drums		50	/6
	Toluene		108-88-3	DLUMB			
SOL	TOTUCKE						
		.					
 							
a contract						02 CAS NU	
V. FEEDS	STOCKS (See Appendix for CAS	CKS (See Appendix for CAS Numbers) 01 FEEDSTOCK NAME		R CATEGORY	01 FEE	DSTOCK NAME	
CATEG	ORY 01 FEED	STOCK NAME		FDS			
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VI. SOU	RCES OF INFORMATIO						•
10:50	Visit	30.					
I Site	1 707 0						

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT ION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDEN	IFICATION	UNIGINA
OLSTATE VA	02 SITE NUM 469	Red)

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O1 D.S. SURPACE WATER CONTAMINATION 03 POPULATION POTENTIAL	occurs. Although	there is spill cl	eanup equipment available.	on-site, none	
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Site Visit

FIELD TRIP SUMMARY REPORT

This summary should be prepared in conjunction with the Preliminary Assessment (Red)

EPA Case Number VA-469 Site Name Vega Precision Laboratories

Site Description

The Vega Precision Laboratories (VPL) facility consists of one 120,000 ft² primary building and a 1800 ft² auxiliary building (figures 2 & 2a). The primary building encompasses the bulk of the facility's operations including administration, engineering, production, and quality assurance. The auxiliary building serves as the facility's paint shop.

Area of site (acres)

Hazardous portion, if not entire site

2

Description of processes/operations which took place at the site

Vega Precision Laboratories manufactures "transbonders" for the defense industry: Transbonders are electronic devises which utilize circuit boards in navigational and guidance systems of airplanes and other flying weapons systems. VPL manufactures these transbonders for the federal government only and has no commercial contracts.

Waste handling/disposal practices

VPL currently operates three primary SWMUs and four satellite collection SWMUs. Hazardous wastes are dated on the first day of accumulation in the primary SWMUs while they are not dated while at the satellite stations. Laidlaw Environmental Services picks up the facility's hazardous wastes.

Site topography and runoff drainage pathways

The site is situated at approximately 450 feet above mean sea level near the top of a northwesterly sloping ridge.

Surface or subsurface drainage areas (leachate) noted?

Odors/stains noted?

None

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solvents in SWMI ±1
Stressed vegetation noted?

None

Location and description of streams or receiving waters adjacent to site. Include flow direction and observations. Note location on attached map.

Wolftrap Creek is located less than 0.25 miles north of the facility. Wolftrap Creek flows in a northwesterly direction for approximately 3.5 stream miles until confluencing with Difficult Run. Difficult Run flows for approximately 3.5 stream miles until finally spilling into the Potomac River at Great Falls National Park.

Monitoring wells on site or in vicinity. Note location on attached map.

	Population within ½ mile of site: ☐ 0-10 ☐ 10-100 ☑ greater than 100	Population within 1 mile of □ 0-10 □ 10-100 □ 100-1000 ⊠ greater than 1000	Site:ORIGINAL (Rod)
	Surrounding land use (woodlot, agricultura	l, recreation, industrial, et	ic.)
	NORTH commercial, residential, recreational	EAST low density residential, co	ommercial
	SOUTH high & low density residential, commercial	west high & low density residen	tial, commercial
	Municipal water supply within 3-mile radius		
	None		<u>-</u>
	Reference:		
	Domestic wells. Approximate number within List nearest downgradient wells below and	노 mile: show locations on attached ma	ıp.
	Owner/Resident Add	ress Ph	ione
	<u> </u>		
		24.1	
	Groundwater flow direction, if known		
-	Unknown; typically with topography		
	Description of odor/taste problems None		J.A.
_			
	State inspection activity (including permit RCRA Small Quantity Generator	rs held)	
	State/Federal/Private remedial activities		
	None		
	•		

Additional comments—Further description of site

ORIGINAL (Red)

Bill Colb Associate Engineer (703) 938-6300 NSPECTION INFORMATION make and title of inspector(s) Russ Dudley & Tracy Young, Environmental Prog. Analysts gency VA. Dept. of Waste Mgmt. Phone number (804) 225-2858 are August 17, 1990 Time on size 10:00 - 1200 AM	Name and Title	Affiliation	Phone
NSPECTION INFORMATION The and title of inspector(s) Russ Dudley & Tracy Young, Environmental Prog. Analysts The sency VA. Dept. of Waste Mgmt. Phone number (804) 225-2858	Bill Colb,	Associate Engineer	(703) 938-6300
NSPECTION INFORMATION The and title of inspector(s) Russ Dudley & Tracy Young, Environmental Prog. Analysts YA. Dept. of Waste Mgmt. Phone number (804) 225-2858	••		
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NSPECTION INFORMATION The and title of inspector(s) Russ Dudley & Tracy Young, Environmental Prog. Analysts YA. Dept. of Waste Mgmt. Phone number (804) 225-2858			
Wency VA. Dept. of Waste Mgmt. Phone mamber (804) 225-2858	<u> </u>	•	
VA. Dept. of Waste Mgmt.			
August 17 1000	NSPECTION INFORMATION	- v···	
Number 17, 1000		<u> </u>	Environmental Prog. Analysts
	ame and title of inspector(s)	Russ Dudley & Tracy Young, 1	

ATTACHMENTS

- o Topographic map identifying site location. Include name of quadrangle map.
- o Site sketch map showing location of monitoring wells, domestic wells, municipal water supplies, and areas of concern (lagoons, leachate seeps, drums, etc.)
- o Any available sampling results or state monitoring data with map showing sample locations.

Appendix C Material Safety Data Sheets

MSDS: BLACO-TRON(TE) PLU

Material Safety Data Sheet

Baron: Blakeslee, Inc., - 2001 N. Janice Ave., - Melrose Park, IL 60160 (312)450-3900



October, 1987 DATE:

CHEMICAL NAME AND SYNONYMS:

Blend of Trichlorotrifluoroethane and Ethyl Alcohol containing a small amount of methyl alcohol

CHEMICAL FAMILY:

Halogenated hydrocarbons/Alcohols

DOT SHIPPING NAME: Not regulated

EDITION: 2nd (M002610) TRADE NAME AND SYNONYMS:

Blaco-Tron TE Plus

FORMULA: C₂CL₃F₃/C₂H₅OH/

CH3OH

DOT HAZARD CLASS:

SECTION 1 - PHYSICAL DATA

BOILING POINT @ VAPOR DENSITY(AIR=1):

760 MM Hq: 5.9

113°F

FREEZING/MELTING SOLUBILITY (WEIGHT %

POINT:

Below -35°C

VAPOR PRESSURE:

Ť:--

220 mm Hq

at 70 deg. F

IN WATER):

Approx. 0.028

EVAPORATION RATE:

(Acetone = 1)

(time to evaporate):

SPEC. GRAV.

pH OF (liquid) SOLUTIONS:

> Neutral VOLUME &

VOLATILE:

100

BULK DENSITY:

Approx.

11.9 lbs./gal.

HEAT OF

SOLUTION:

Not available

APPEARANCE AND ODOR: Colorless liquid with ethereal and faint sweetis odor.

SECTION 2 - HAZARDOUS INGREDIENTS Approx	₹. ₹	HAZARD DATA
Trichlorotrifluoroethane	90.0	See Section 5
Ethyl alcohol, denatured grade (SDA-30)	9.0	See Section 5
Methyl alcohol (minor ingredient SDA-30, above)	1.0	See Section 5

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT F (METHOD USED) FLAMMABLE LIMITS IN AIR EXTINGUISH. MEDIA: Non-Flammable (Closed Cup)

(% BY VOLUME) Not Available

Carbon Dioxide; Dry Chemical; Water

Spray

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters should wear NIOSH pressure demand self-contained breathin apparatus for possible exposure to hydrochloric and hydrofluoric acid: and phosgene. Use water spray to keep containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Will decompose at temperatures above 250°C. Decomposition products car include hydrochloric and hydrofluoric acid and phosqene.

24-HOUR EMERGENCY ASSISTANCE: 201/455-2000

BLACO-TRON TE PLUS Issued 6-1-89

IMPORTANT NOTICE!!

New OSHA Permissible Exposure Limits (PEL's) and/or Short Term Exposure Limits (STEL's)

Effective March 1, 1989, the OSHA PEL and/or STEL for one or more of the components of Blaco-Tron TE Plus were revised. The following chart lists the current OSHA and ACGIH Exposure Limits for the component(s) of Blaco-Tron TE Plus and where applicable a revised calculated PEL for the product. You should utilize this exposure data in your review of the product and disregard the OSHA values listed in the attached PSDS sheet.

Component	<u>WT%</u>	OSHA V 8-Hour PEL	/alues 15 Min STEL	ACGIH 8 Hour TL\	Values / 15 Min STEL
 1. 112-Trichloro 122 Trifluoroethane CAS No. 76-13-1 	90	1000 ppm	1250 ppm	1000 ppm	1250 ppm
2. Ethyl Alcohol CAS No. 64-17-5	9	1000 ppm	None Listed	1000 ppm	None Listed
3. Methyl Alcohol CAS No. 67-56-1	1	200 ppm	250 ppm	200 ppm	250 ppm

Based on the ACGIH methodoloy for the calculation of a TLV value for a mixture (Appendix C, ACGIH TLV Handbook, 1988) the PEL/TLV value for Blaco-Tron TE Plus is:

- A. OSHA 8-Hour PEL 850 ppm
- B. ACGIH 8-Hour TLV 850 ppm

ADDITIONAL INFORMATION

EXPOSURE TO TRICHLOROTRIFLUOROETHANE:

Animal studies in various species have observed cardiac arrythmia at the following concentrations:

Monkey - 25,000 - 50,000 ppm Mouse - 100,000 ppm

Myocardial depression was observed in the dog at 50,000 ppm.

Subacute data: Rats exposed at 2,520 ppm, 7 hours/day, 5 days/wk, 30 days - no apparent effects.

At 5,000 ppm and same time exposure, mild live: effects, prevention of weight gain.

B. Ethyl Alcohol - CAS NO. 64-17-5

PERMISSIBLE EXPOSURE LIMITS (TLV)

Current Federal OSHA permissible exposure limit (29 CFR 1910.1000) i 1000 ppm 8-hour TWA).

ACGIH has adopted a permissible exposure limit of 1000 ppm (8-hou TLV).

ROUTES/EFFECTS OF OVEREXPOSURE:

``

INGESTION: Large doses can cause alcohol poisoning. A centra nervous system depressant.

INHALATION: Exposure to concentrations of over 1,000 ppm can cau headache, irritation of nose and throat, and if long continu drowsiness and lassitude, loss of appetite and inability to conce trate.

EYES: Irritant to eyes in concentrations greater than 1,000 ppm.,

C. METHYL ALCOHOL - CAS NO. 67-56-1

PERMISSIBLE EXPOSURE LIMITS -

Current Federal OSHA permissible exposure limit (20 CFR 1910.1000) 200 ppm (8-hour TWA)

ACGIH has adopted a permissible exposure limit of 200 ppm (8-hc TLV).

SECTION 4 - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LIMITS (TLV): See Section 5

TOXICITY DATA: Trichlorotrifluoroethane

LC LO INHALATION: Human: 4,500 ppm Central

Nervous System Effects

SKIN - RABBIT: 500 mg-open

LD₅₀RAT: 43 gm/kg

٠... ت CLASSIFICATION (POISON,

IRRITANT, ETC.)

INHALATION: Low Toxic SKIN/EYE: Mild irritant

INGESTION: Mildly Toxic

HUMAN EXPOSURE INFORMATION/DATA:

None of the components of Blaco-Tron TE Plus are listed as a carcinogen by OSHA, IARC, or NTP. All of the components are listed in the TSCA Inventory.

SECTION 5 - EFFECTS OF OVEREXPOSURE

This section covers effects of overexposure for inhalation, eye/skin contact, ingestion and other types of overexposure information in the order of the most hazardous and the most likely route of overexposure.

A. Trichlorotrifluoroethane, CAS NO. 76-13-1

PERMISSIBLE EXPOSURE LIMITS (TLV)

Current Federal OSHA permissible exposure limit (29 CFR 1910.1000) is 1,000 ppm (8-hour TWA)

ACGIH has adopted a permissible exposure limit of 1,000 ppm (8-hour TLV)

ROUTES/EFFECTS OF EXPOSURE:

INHALATION: At low level of concentration (human: 2,500 ppm fluorocarbon component, 0.5-1.0 hour exposure) headache, dizziness, nausea, loss of concentration have been experienced. With high exposure levels: intoxication, cardiac effects, and CNS depression (loss of concentration or even death) may occur. Vapors can displace air, resulting in an asphyxiation hazard.

EYE OR SKIN CONTACT: Irritant to skin and eyes: excessive contact may cause defatting.

INGESTION: Similar symptoms as for inhalation. In large doses, respiratory failure can occur.

EFFECTS OF OVEREXPOSURE

ACUTE: Primarily a central nervous system depressant. Inhalation can cause irritation of the respiratory tract, dizziness, nausea, headache, loss of coordination and equilibrium, unconsciousness and even death in confined or poorly ventilated area. Liquid splashed in the eye can result in discomfort, pain and irritation. Prolonged or repeated contact with liquid on the skin can cause irritation and dermatitis. The problem may be accentuated by liquid becoming trapped against the skin by contaminated clothing and shoes. Skin absorption can occur.

SECTION 6 - REACTIVITY DATA

CONDITIONS TO AVOID: Will decompose at temperatures above 250°C.

sparks, hot spots, welding, flames and cigarettes. CONDITIONS TO AVOID: None HAZARDOUS POLYMERIZATION: Will not occur Strong acids and alkalis reactive INCOMPATIBILITY (MATERIALS TO AVOID): metals e.g. powdered aluminum, magnesium, zinc, molten aluminum, barium and lithium shavings. Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrochloric and hydrofluoric acids,

phosgene.

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SECTION 7 - SPILL OR LEAK PROCEDURES Immediately STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: evacuate the area and provide maximum ventilation. Unprotected personnel Only personnel equipped with proper should move upwind of spill. respiratory and skin/eye protection should be permitted in area. area to contain spill. Take precautions as necessary to prevent contami-

nation of ground and surface waters. Recover or absorb spilled material on sawdust or vermiculite and sweep into closed containers for disposal. After all visible traces have been removed, thoroughly wet vacuum the DO NOT flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal. (See Below.)

Contaminated sawdust, vermiculite or porous surface must be disposed of in a permitted hazardous waste management WASTE DISPOSAL METHOD: facility. Recovered liquids may be reprocessed or incinerated or must be treated in a permitted hazardous waste management facility. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. It is your duty to dispose of the chemical materials and/or their containers in accordance with the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act as well as any other relevant federal, state or local laws/regulations regarding disposal.

SECTION 8 - SPECIAL PROTECTION INFORMATION

None required for adequately vented wor Use NIOSH approved self-contained or supplied-air respira RESPIRATORY PROTECTION: tors for emergencies and in situations where air may be displaced t vapors.

VENTILATION (TYPE): Local exhaust: At filling zones and where leakac is probable. Mechanical (General): Adequate for storage areas.

EYE PROTECTION: Splashproof Goggles

Protective gloves and full protective clothing if there : prolonged or repeated contact of liquid with skin.

Safety shower and eye-wash fountain immediate area. Personal protective clothing and use of equipment mu OTHER PROTECTIVE EQUIPMENT: be in accordance with 29 CFR 1910.133 and 29 CFR 1910.132.

ROUTES/EFFECTS OF OVEREXPOSURE

INGESTION: The main toxic effect is exerted on the nervous sysparticularly the optic nerves and possible the retina.

Severe exposures may cause dizziness, unconsciousness, sigh respiration, cardiac depression and eventually death. Where expos is less severe, the first symptoms may be blurring of visi photophobia, and conjunctivitis followed by the development definite eye lesions. There may be headache, gastro intesti disturbances, dizziness and a feeling of intoxication. The vis symptoms may clear temporarily, only to recur later and progress actual blindness.

Death from ingestion of less than 30 ml. has been reported. Us fatal dose is 100-250 ml.

INHALATION: Inhalation of fumes can lead to similar symptoms those listed for ingestion.

EYE/SKIN: Skin may become dry and cracked due to solvent action methyl alcohol. Mild irritant to eyes.

Based on the ACGIH methodology for the calculation of a TLV value a mixture (Appendix C, ACGIH TLV Handbook, 1986), the TLV value Blaco-Tron TE Plus is as follows:

- A) Using OSHA TWA values 850 ppm
- B) Using ACGIH TLV values 850 ppm

EMERGENCY AND FIRST AID PROCEDURES

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INHALATION: Remove patient to fresh air. Give mouth to mouth resustation if breathing has stopped. Give oxygen as necessary if a qualif operator is available. DO NOT give adrenalin (epinephrine). Call physician.

INGESTION: If conscious, induce vomiting immediately by giving 2 to glasses of water and touching finger to back of throat. Call a phycian. NEVER give anything by mouth to an unconscious person. Timmediately to hospital or physician.

EYE CONTACT: Flush with large amounts of water for at least 15 minute lifting eyelids occasionally. If eye symptoms persist, consult physician.

SKIN CONTACT: Wash promptly with soap and water for at least 15 minut while removing contaminated clothing and shoes. If irritation occur see a physician. Thoroughly clean contaminated clothing and shoes beforeuse or discard.

SECTION 9 - SPECIAL PRECAUTIONS

UBICISIUS

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORING:

(Red)

- DO NOT use in poorly ventilated or confined spaces.
- * Trichlorotrifluoroethane vapors are heavier than air and will collect in low areas.
- Keep container closed when not in use.

* DO NOT store in open, unlabeled or mislabeled containers.

* This material or its vapors when in contact with flames, hot glowin surfaces or electric arcs can decompose to form hydrogen chloride ga

hydrofluoric acid and traces of phosgene.

* AVOID CONTAMINATION OF WATER SUPPLIES: Handling, storage and us procedures must be carefully monitored to avoid spills or leaks. An spill or leak has the potential to cause underground water contamination which may, if sufficiently severe, render a drinking water source unfit for human consumption. Contamination that does occur cannot be easily corrected.

OTHER PRECAUTIONS:

* AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. High vapor concentrations can cause dizziness, unconsciousness or death.

* USE ONLY WITH ADEQUATE VENTILATION. Ventilation must be sufficien to limit employee exposure to product below OSHA permissible exposur limits (8-hour TWA).

* AVOID CONTACT WITH EYES. Will cause irritation and pain.

- * AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. May cause irritatic or dermatitis.
- * DO NOT TAKE INTERNALLY. Swallowing may cause injury or death.
- * DO NOT EAT, DRINK OR SMOKE IN WORK AREAS.

* NEVER enter a pit or tank without observing safety procedures:

- * Never alone, always with a life line, and always with positive suppl of fresh air.
- * Employ respiratory protection when exposure to vapors is possible.

REFERENCES:

£.--

- NIOSH Registry of Toxic Effects of Chemical Substances, 1978.
- 2. Industrial Hygiene and Toxicology, Volume 11, Second Edition, F.A. Patty, 1986.
- Dangerous Properties of Industrial Materials, Sixth Edition, N.I. Sax, 1984.
- 4. Federal Register, 45FR Hazardous Waste Management Systems Part III Identification and Listing of Hazardous Wastes, Page 33084, May 19 1980.
- 5. EPA Science Advisory Board, Subcommittee on Airborne Carcinogens September, 1980.

THIS MATERIAL SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION CONSIDERATION AND INVESTIGATION.

BARON-BLAKESLEE PROVIDES NO WARRENTIES, EITHER EXPRESS OR IMPLIED, AN ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE DAT. CONTAINED HEREIN.

GENESOLV/BARON-BLAKESLEE

ENVIRONMENTAL DATA SHEET

ORIGINAL

				1. P.
SUPPLEMENT	TO PSDS: BLACO TRON® TE PLUS		•	
	ENT ISSUE DATE: October 1987 PSDS#	#_ <u>M002610 (2nd</u>	ED)	
SARA - TITLE	III (40 CFR 300)			
1.	THIS PRODUCT CONTAINS THE FOLI SUBSTANCE (S) (SELECTIONS 302 A	_OWING EXTRE AND 304):	MELY HAZ	ARDOUS
	COMPONENT TPO (LBS		RQ (LB	_
2.	THIS PRODUCT CONTAINS THE SUBSTANCE (S) (SECTIONS 302 AN	FOLLOWING ID 304):	CERCLA	HAZARDOU
·	COMPONENT		RQ (LB	<u>S)</u>
	METHANOL (METHYL ALCOHOL) CA	S 67-56-1	5000 ·	
NOTE:	THE FOLLOWING INFORMATION PROIS REQUIRED FOR EMERGENCY RE	SPONSE REPOR	HING.	
3.	THIS PRODUCT HAS THE FOLLOWIN	NG HAZARDS (SECTION 3	11 AND 312)
. 4.	IMMEDIATE DELAYED FIRE PRESSURE REACTIVE THESE PRODUCTS CONTAIN THE	<u>ES</u> X X FOLLOWING TO	NO X X X EX	ICALS
	(SECTION 313):		<u>wr %</u>	
	112 TRICHLORO 122 TRIFLUOROET	THANE	90	
	CAS 76-13-1 METHANOL (METHYL ALCOHOL) C	AS 67-56-1	1	
	FOR ADDITIONAL INFORMATION O		CHEMICAL	S, SEE

FOR ADDITIONAL INFORMATION ON THE ABOVE CHEMICALS, SEE SECTION 5 OF THE MATERIAL SAFETY DATA SHEET.

DATE: 11-7-88

U.S. Department of Labor



Recifired of Jor USDL Safety and Health Regulation : for Shipyard Emploment (29 CFR 1915) Occupational Safety and Health Administration OMB No. 1218-0074 Expiration Date 05/91/86NA August 16, 1985 Preparation Date Manufacturer's Name Emergency Telephone Number HumiSeal Division, Columbia Chase Corp. (718) 932-0800 Address (Number, Street, City, State, and ZIP Code) Chemical Name 26-60 Brooklyn - Queens Expwy. and Synonyms Trade Name Woodside, New York 11377 and Synonyms STRIPPER 1071 Chemical Formula Family SOLVENT Section II - Hazardous ingredients Ingredients CAS Number TLV (Units) 2- METHOXYETHANOL 109-86-4 60+80 POTASSIUM HYDROXIDE 1310-58-3 2+4 N/A. ETHYL SILICATE 26352-16-9 0 25 N/A ordous Mixtures of Other Liquids, Solids or Gases CAS Number TLV (Units) Section III - Physical Data Boiling Point (°F) Specific Gravity (H2O=1) 256 por Pressure (mm Hg.) Percent Volatile by Volume (%) Vapor Density (AIR=1) **Evaporation Rate** (_BuAc_ 1.0 Solubility in Water Complete Appearance and Odor Blue/green to yellowish brown fluid with slight pleasant odor Section IV - Fire and Explosion Hazard Data Flash Point (Method Used) Flammable Limits Uel °F, Closed cup 24.5 Extinguishing Media <u>Carbon Dioxide</u>, <u>foam</u>, <u>sand</u>. Special Fire Fighting Procedures Use self-contained breathing apparatus. Avoid spreading burning liquid with water used for ling purpose. Unusual Fire and Explosion Hazards

Vapors are heavier than air and may travel to ignition source and flash back.

					HumiSeal Type Stripper 107	<u> </u>
	18:1-					
Secilon V - Health						
Threshold Limit Va		,		V above	the saturation concentration.	
Methoxyet	hanol 25 p	Dm'To	Rygenaten Sorvent In			ORIGINIAL
SKIN: May	result in	derm	atitis, eye irritant	, respi	ratory tract irritation, narco	Sis in
JRIII. III			• .			• 62774 V
high concen	tration, f	aint	ness.			
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	·					
						
Emergency First	Aid Procedures	•				
Skin Contac	ct: Flush	witi	n_water;			
				d •		
Eye Contact			h water and boric aci			
	Dilute	vii	negar. Prolonged exi	osure_t	o vapors: Breath fresh air o	c oxygen.
Antidote: Section VI - Read		<u>. v</u>	11085			
	Unstable		Conditions			•
- Stability	•		Flame, ignition	sources	5	
	Stable					
		X				
Incompatibility (Materials to Avoi	d)	oxidizing agents			·
Hazardous Deco	Stro	ong	oxidizing agents			
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lymerization	,					
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Section VII - Sp	III or Leak Proce	cial is	Released or Spilled			
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Flush with	water					
					Alles execipit	
Waste Disposal	Method Dilu	te v	with at least 10 time	s the v	olume of water. Allow precipit	Dispose i
Section VIII - S	pecial Protection	Infor	mation accordance with	app110	able local regulations:	
						ro1
NTOSH/MSH			r type is advised in	absence	of proper environmental controls Special Use only with adequate	ventilation
Ventilation	ILOCAL EXHAUST	16.	s, race reserve or	iter	(outdoors)	
	than 60 H		M. a) Explosion proof to	keep	Other	
-	Mechanical (C	inde inde	r TLV	•	NO SMOKING OR OPEN LIGHTS	
				Eye Prote		
Protective Glov	ves Yes – Ir	nper	vious gloves	Yes	 Goggles or faceshield 	
Other Protective						_
Chemical	resistant a	apro	n, eyewash station a	nd safe	ty showers should be available	
Section IX - St	pecial Precaution	18				
. Precautions to	be Taken in Ha	ndling	and Storing	0 1	containers when nouring and li	mit free fa
Store awa	v from hea	t, s	park or open flame.	<u>Avoid</u>	containers when pouring and li spontaneous combustion of cont such as spray booth residues).	aminated ra
·	inches to	nrow	ione Static Sparks.		1 duec)	- Kv immedia
and other	easily r	8117	able organization	- Longad	ckin contact and breathing of	. vapors.
Other Precaut	ontainers	mav	retain hazardous pro	perties	. Do not cut, puncture, or we	<u>ira un ur</u> ne
nubered c						

Form OSHA-20 (Rev 1/85)

container.

Material Safety Data Sheet

Required under USDL Safety and Health Regulations for Shipyard Emploment (29 CFR 1915)

U.S. Department of Labor

Occupational Safety and Health Administration



OMB No. 1218-0074 Expiration Date 05/31/86

		Pr	eparation C	Date	August 15,	1985		ORIG (R e
ction I						Emercence	v Taler	phone Number
anufacturer's Name						(718)		
umiSeal Division, Columbia Chase Corp.	<u></u>	Ci	némical Na	me		<u> </u>		
dress (Number, Street, City, State, and ZIP Code)			id Synonyn		•			
-60 Brooklyn - Queens Expwy.		Tr	ade Name					
oodside, New York 11377		ar	nd Synonyn	ns	HumiSEal T	hinner N	lo. 5	521
odside, New York 11377		C	hemical	_		Fo	rmula	
		Fa	amily		Hydrocarbo	n solver	ıts	
ction II - Hazardous Ingredients								
				CAS	Number		%	TLV (Units)
gredients								
Xylene					1330-20-7		100	100 PPM
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ection III - Physical Data			Specific Gr	avity (H2O= 1)			
oiling Point (° F)	0.77	1	opeemo o.	 , (.,			87
	279	9	Percent Vo	latile b	y Volume (%)		\top	
apor Pressure (mm Hg.)	10		, crocm re		,			100
	19.4	4	Evaporatio	n Rate	,			
/apor Density (AIR=1)	2 (1	BuAc				0.60	
	3.0	01	-500					•
Solubility in Water	.an () 1 ,	202	cent					
Negligible, Less th	lail U.I	per	CCIT					-
Appearance and Odor								<u> </u>
Water clear, solvent odor								
Section IV - Fire and Explosion Hazard Data		 -	Flammable	Limits		Lel	U	el
Flash Point (Method Used)	1	80	, , , , , , , , , , , , , , , , , , , ,			0.9		6.8
°F, T.C.C.		1						
Extinguishing Media	t = = 1							
Foam, Carbon Dioxide, Dry Chem:	ICal							
Special Fire Fighting Procedures Fight as flammable liquid fire		 1 f	contai	ned	hreathing_a	pparatus		
right as tlammable liquid fife:	<u>, wear s</u>					LLaradae		
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118110 400 124111110								
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ution V - Heat	th Hazard Data					
Threshold Limit						
100 T			· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
Effects of Overe	•					PRIGINAL
lation	: lemporar	у <u>а</u> з	.zziness, headache, r	possibly	v nausea; systems disappear when expe	ភឧក <u>ដុំ</u> ធ្លូបឃុំ
ceases: sk	in and eve	con	itact: Discomfort by	defatti	ng action.	
Chronic Ef	fects: Car	rdia	ic abnormality.			
						
- ,	t Aid Procedures		•			
<u>Skin Conta</u>	ct: Remove	 -∵3	turated clothing and	l wash s	kin with soap and water	_
Eves: Trri	gate with t	ja t e	r. Inhalation: Remov	ze to fr	each air	
	, , , , , , , , , , , , , , , , , , ,		ALLEN WELLOW	V C (. () 1 i	-	
		<u>ıysi</u>	cian promptly.	_		
Section VI - Rea	, 		To4:8:			
Stability	Unstable		Conditions			ŕ
	Stable					
	•	X	NOT APPLICABLE			
npatibility (Materials to Avo	id)				
May react	with strong		idizing agents.			
	mposition Produ		Carbon Dioxide, Carb	on mond	xide, possibly oxides of nitrogen ar	nd ·
<u>possibly a</u> Hazardous Polymerization	crolein, ur May Occur	on	thermal decomposition Conditions to Avoid	on-		
1 drymonzation	Will Not Occur	<u> </u>			-	
	Will Hot Good	Х	NOT APPLICABLE			
	· · · · · · · · · · · · · · · · · · ·					
					·	
· ·	Il or Leak Proced					 ,
Steps to be Take	en in Case Mater	iai is	Absorb spills with i	source	s of ignition. Provide ventilation a	and/or
spills may	pe scooped	110	with non-sparking to	nole and	terial (sand, vermiculite, etc.) La transfer to container for proper de	irge
opizio may.	oc secoped	Сp	with non Sparking to	OIS and	cransfer to container for proper d.	rshogar.
Waste Disposal	Method Plac	e i	n closed containers.	Incine	rate (first open closed containers)	or use
					federal regulations.	
Section VIII - Sp	ecial Protection	Infor	nation			
Respiratory Prot	ection (Specify	Гуре)	*****	.1		
					of proper enviromental control Special Use only with adequate ventila	Tion -
Ventilation	than 60 F		, face velocity grea	iter	(outdoors)	
) Explosion proof to	keep	Other No smoking or open lights	
	vapors und		•			
	rotective Gloves				ction	
	rvious glov	es		Yes	- goggles or faceshield	
Other Protective	•		aversah station en		. showers should be sustinable	
Section IX - Spe		ron	, eyewash station an	id safet	y showers should be available.	
	e Taken in Hand	iling a	and Storing			
		-		Ground	containers when pouring and limit ()	ree
to a	ew inches	to	prevent static spark	s. Avo	id spontaneous combustion of contam:	inated
					n (such as spray booth residues) by	
					olonged skin contact and breathing of	
vapors, emp on or near			rs may recain hazard	ous pro	perties. Do not cut, puncture or we	-14
Ju or near	container.		•			

Page 2

Form OSHA-20 (Rev. 1/85)



master chemical corporation

THE COOLANT MANAGEMENT COMPANY

MATERIAL AND MANUFACTURER IDENTIFICATION:

Juct name Material type

Classification/Synonym(s)

Product use Manufacturer address TRIM® SOL

Water-miscible cutting and grinding fluid concentrate

Chemical emulsion/Soluble oil

Coolant and lubricant in metal removal processes

MASTER CHEMICAL CORPORATION

501 West Boundary

PO Box 220

Perrysburg, OH 43551

Emergency

telephone number

Telex number Easylink number (419) 874-7902

510-600-1600 Answerback: MASTER CHEM UD

62897774

2. REGULATORY INFORMATION

Department of Transportation

DOT Hazard Class: None

TRIM® SQL is not classified as a hazardous material by DQT.

Hesource Conservation and Recovery Act

EPA Hazardous Waste Number(s): None

TRIM® SOL is not classified as a hazardous waste by EPA.

Toxic Substances
Control Act

All TRIM® SOL ingredients are listed on the TSCA

Inventory of Chemical Substances.

INGREDIENT INFORMATION

The exact chemical identities and percentages of the raw materials used in TRIM® SOL are trade secrets. This information is being withheld as provided for in the Occupational Safety and Health Administration's Häzard Communication Rule (29 CFR 1910.1200).

Original (Red)

PHYSICAL DATA

HALL CONTROL OF THE C	ORIGINAL
Vapor pressure (psi)	Specific gravity (H ₂ 0 = 1)

5. FIRE AND EXPLOSION HAZARD DATA

Flash point (test method)
Flammable limits
Extinguishing media
Special fire fighting

pecial fire fighting procedures

Unusual fire and explosion hazards

305°F (COC) None (TCC)

Not determined

As appropriate for the surrounding fire

None

None

6. HEALTH HAZARD DATA

Threshold limit value Acute effects of overexposure None established by ACGIH or OSHA Eye contact Transient irritation

Skin contact

Possible defatting, nonirritant, nonsensitizer

Inhalation Ingestion Skin absorption

Nontoxic Nontoxic

Chronic effects of overexposure

None currently known

The National Toxicology Program Annual Report on Carcinogens does not list TRIM® SOL or any of its ingredients.

The International Agency for Research on Cancer Monographs have not found TRIM® SOL or any of its ingredients to be potential carcinogens.

The Occupational Safety and Health Administration does not regulate TRIM® SOL or any of its ingredients as potential carcinogens.

Signs and symptoms of exposure Medical conditions generally aggravated by exposure

Emergency and first aid

procedures

None

None known

Eyes

Flush immediately with cool, clean water

for at least 15 minutes.

Skin

Wash with mild soap and warm water.

Inhalation

Remove to fresh air. 🕞

Ingestion

If large quantities are ingested, pump stomach.

Conditions to avoid Incompatibility (materials to avoid) Hazardous combustion or decomposition products Hazardous polymerization Conditions to avoid

□ Unstable None

Strong oxidizers, acids and alkalis

Thermal decomposition (fire) may produce CO, CO₂, HCl, SO₂

☐ May occur None

☑ Will not occur

SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled Mop up or use dry absorbent

Waste disposal method

Acid-alum split

Refer to Data and Information Sheet for suggested procedure.

SPECIAL PROTECTION INFORMATION

Respiratory protection (Specify type)

None

Ventilation

Local exhaust

Not normally required :

Mechanical (general)

General room ventilation should be sufficient

Special-

None

Other

None

Protective gloves Other protective equipment Eye protection

None None

Safety glasses

SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing Other precautions

Refer to Data and Information Sheet or container labels,

None

Date of preparation

August, 1988



master chemical corporation metalworking fluids division

501 West Boundary Perrysburg, Ohio 43551-1263

PHONE: 419-874-7902 419-874-0684 Fax: 510-600-1600 Telex:

TRIM® is a registered trademark of MCC. *****Ф COPYRIGHT MASTER CHEMICAL CORPORATION* The information herein is given in good faith and believed current as of the date of this MSDS. Because conditions of use are beyond our control, no (is made. Consult MCC for further information.

Disclosure Fr. than calety and medical aurposes, as

prohibited without authorization of OAKITE PRODUCTS MATERIAL SAFETY DATA SHEET (MSDS)

OAKITE 33

27-M-10

ORIGINAL (Red)

				<u> </u>		
SEC	TION I			FMERG	ENCY TELE	TPHONE N
TRADE MAME (if None Put Chemical) Oakite 33						
CHEMICAL NAME AND SYNDMYMS				(201)	464-6900	(/AM-5PM
MANUFACTURER'S HAME	•					'
AND TELEPHONE NO. Oakite Product ADDRESS (Number, Street	cts, Incorpora	ted		(800)	424-9300	(CHEMTRE
Car. State. Zio Code) 50 Valley Ro.	ad		9	Berkelev	HeightsNJ	07933
SECTION II - HAZARD	OUS INGRE	DIENTS	%	ייי דבע	PEL	UNITS
		•				
Phosphoric acid (CAS #766 2-Butoxyethanol (CAS #11 Non-hazardous ingredients	1 76 2) -skin		65 18 17	1 . 25	1 50	MG/M3 PPM .
	٠		,			
<u>.</u>		•				
	•					
*Unidentified ingredients a hazardous under the Federal Standard (20 CFP 1010 1200)	Hazard Commu	nication				
	CTION III -	1				
BOILING POINT (°F)	NE	SPECIFIC GRA		=1) .		1.35
VAPOR PRESSURE (MM Hg.)	NE	PERCENT VOL. BY VOLUME (> 30
VAPOR DENSITY (AIR=1)	> 1	pH	(5% so	lution).		1.3
COLUBILITY IN WATER	Complete	EVAPORATION	DATE	BuAc = 1	· ·	< 1
APPEARANCE AND ODOR Light vellow	to tan liquid	: slight s				
SECTION IV -	FIRE AND E	XPLOSI	H NC	AZARD	DATA	• •
LASH POINT (Method used) NONE		FLAMMAB	LE LIXIITS		LEL NA	NA
XTINGUISHING MEDIA Use media sui	table for sur	rounding m	nateria	ls.	٠.	<u> </u>
SPECIAL FIRE	tained Breath					
INUSUAL FIRE AND XPLOSION HAZARDS None known.				··		
A - Not Applicable 5 NE	- Not Establish	ed U	N - U-	available.		

SYMPIOMS/EFFECTS OF OVEREXPOSURE little ion of mist may cause respiratory irritation with coughing, sneezing, pair in and difficult breathing. Severe exposures may lead to chemical preparation or severe burns; BURNING SENSATION MAY BE DELAYED. Eye contact causes severe or permanent damage. This product ONGINE contains 2-Butoxyethanol, which has caused liver and kidney damage and hemolyticed)

EYES Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. Get prompt medical attention.

SKIN Immediately remove contaminated clothing; wash skin with large amounts of water for at least 15 minutes. Get prompt medical attention.

INHALATION Move victim to fresh air and restore breathing if necessary. Stay with

INGESTION Contact local poison control center SECTION VI - REACTIVITY DATA

STABILITY Normally Stable.

INCOMPATIBLE MATERIALS Alkalies. Contact with metals may yield explosive Hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS Phosphorus oxies, Carbon monoxide, Carbon dioxide,

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURES Wear personal protective equipment (See Section VIII). Contain spill, add soda ash or lime, and place in poly-lined drums for disposal.

WASTE DISPOSAL METHOD Dispose of in accordance with Local, State, and Federal

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY If TLV is exceeded, or for symptoms of overexposure, wear a NIOSH-approved organic vapor respirator with a dust and mist pre-filter. EYEWEAR If splash potential exists wear chemical splash goggles or faceshield.

CLOTHING/GLOVES If potential for skin contact exists, wear neoprene or other chemical resistant gloves and apron or coveralls and/or foot coverings, as needed. VENTILATION Local exhaust may be necessary if material is heated, misted, or sprayed. Specific needs should be addressed by supervisory or health/safety personnel

SECTION IX - SPECIAL PRECAUTIONS

CORROSIVE. Store in closed container in cool, well-ventilated area. diluting, always add this product slowly to water with constant stirring. Do not add this product to chlorine releasing materials. l f

APPROVAL	All Mills	22 CE		
				13 1985
oto or mileto	Increase, no werranty it entended	t available scientific data. Now into	mation may be developed from time	DATE DATE

Material Safety Data Sheet

Regsired under USDL Safety and Health Regulations for Shipyard Emploment (29 CFR 1915)

U.S. Department of Labor

Occupational Safety and Health Administration



OMB No. 1218-0074 Expiration Date 05/31/86 (Red) July 8, 1985 Preparation Date Section I Emergency Telephone Number 718-932-0800 Manufacturer's Name HumiSeal Division, Columbia Chase Corp. Chemical Name Address (Number, Street, City, State, and ZIP Code) and Synonyms 26-60 Brooklyn - Queens Expwy. Trade Name HumiSeal 1B31 and Synonyms Woodside, New York 11377 Formula Chemical Acrylic Coating Family Section II - Hazardous Ingredients TLV (Units) % CAS Number Ingredients 5 d 100 PPM 108-88-3 Toluene 200 PPM 15 78-93-3 METHYL ETHYL KETONE TLV (Units) CAS Number zardous Mixtures of Other Liquids, Solids or Gases Section III - Physical Data Specific Gravity (H2O=1) Boiling Point (°F) .88 212 Percent Volatile by Volume (%) Vapor Pressure (mm Hg.) 65 49 Evaporation Rate Vapor Density (AIR= 1) 3.62 (BuAc 3.8 Solubility in Water Negligible Appearance and Odor Straw colored liquid with aromatic odor Section IV - Fire and Explosion Hazard Data Uel Lel Flammable Limits Flash Point (Method Used) 11.2°F, T.C.C. Extinguishing Media Dry Chemical Foam, Carbon Dioxide, Special Fire Fighting Procedures Fight as flammable liquid fire; wear self contained breathing apparatus Unusual Fire and Explosion Hazards Vapor is flammable and heavier than air and may travel to ignition and flash back.

n V Heal	th Hazard Data		
oshold Limit	Value SECTION	17	
Effects of Overe		<u> </u>	
		nce	ntration may cause naves and least a
_7er en	largment	k i	ntration may cause nausea and loss of appetite; laborance maldney, lung, spleen and brain damage, central nervouses systematical states and second contractions are supplied to the contraction of the con
ects.		**	and brain damage, central nervousysyste
			,
			·
	Aid Procedures		
Skin cont	act - rei	nove	saturated clothing and wash skin with soap and water.
$n\lambda c_2 - T$	rigate w.	$\perp \cup \Pi$	Water. Inhalation - remove to freeh air
Ingestion	ı <u>- do no</u>	tii	iduce vomiting. Consult physician promptly.
i	*		g ray around promputy,
Section VI - Rea	ctivity Data		
Stability	Unstable		Conditions .
	Stable		N-4 - 7' v7
·	x		Not applicable
ecompatibility (Materials to Avo	id)	
rong ox	idizing a	iger	ts.
Hazardous Deco	mposition Produ	ıcts	
<u>Carbon mo</u>	poxide, c	art	on_dioxide
Hazardous	May Occur'		Conditions to Avoid
Polymerization			<u> </u>
_	Will Not Occur		N - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
-	<u> </u>	X	Not applicable
Section VII - Spi			
Steps to be Take	en in Case Mater	ial is l	Released or Spilled
scooped n	on inerc	mat	erial (sand, vermiculite, etc.) Large spills may be
ventilati	p with no	n-8	parking tools. Remove source of ignition. Provide
Vencilaci	on and/or	re	spiratory protection.
Waste Disposal		_	
			tate and federal regulations.
•	ecial Protection		
Respiratory Prot	ection (Specify 7	Гуре)	Use hydrocarbon vapor canister or supplied-air respirator
protection	a TH COUT	ine	U Or enclosed spaces if peodod
Ventilation	Local Exhaust	Yes	Face velocity great Special USE Only with adequate vent-
	than 6	0 F	PM ITation - Rangequate meaning outdoo:
	Mechanical (Ge	neral)	Explosion proof; to Other To Smorting of Spen lights
	keep van	ors	below TLV
Protective Glove			Eye Protection
Yes - Che	emical Re	sis	tant Chemical splash goggles or faceshield
Other Protective	Equipment Ch	emi	cal resistant apron, eyewash station and safety showers
should be	e availab	le.	sai resistant apron, eyewash station and safety showers
Section IX - Spe			
Precautions to b	e Taken in Hand	lling a	nd Storing
		•	sparks and open flame Ground containers when pouring
mit free	a fall to	٠,	few inches to prevent static sparks.
#10 11 G	tall (U	a	rew inches to prevent static sparks.
Precaution	ns		
		٨	void prolonged skin contact and breathing of vapors.
mntied or	ontoiner-	A	water in heart days
reld on or	mearners	1111a	y retain hazardous properties. Do not cut, puncture or
	. 11041-00	11 6 25	Page 2 Form OSHA-20 (Rov. 1/85)
			[MeV. 1765]

Appendix D Selected VDWM RCRA Files



Office of Environmental Programs

Waste Management Administration • Hazardous Waste Division
P.O. Box 13387 • Baltimore, Maryland 21203 CC: YEG

PIFORM HAZARDOUS WASTE MANIFEST BY AND 19 3 2 3 1 3 6 6 9 9 9 3 2 1 8 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10	THEORIM HAZARDOUS WASTE MANIFEST WASTE MANIF			- Daitimore, mary					: 7.01	
WASTE MANIFEST Vega Preciston Labs SOO Follin Lame Vienne, Va. 2180 Learner Va. 2180 Research Plane Roundly Sand Good South Common Vienness Roundly Sand Good South Common Vienness Common Vienn	WASTE MANUFEST Vega Precision Labs SOO Follin	se print or type. (Form designed for use	on elite (12-pitch) type	ewriter.)						Unio
SETTING NUMBER OF PROCESSION LIBBS SON FAILIN LAND SON FAILIN CALL SON FAILIN LAND SON FAILIN SON FAIL SON FAILIN SON FAILIN SON FAILIN SON FAILIN SON FAILIN SON FAIL	Secretary Name and Mailing Address Secretary Name Sec		V A D O Q 3	2 4 1 8 6 6 6 6	8 64 6 6	of 🖠	is not rec	quired by F	ederahlawi.	<u>;</u>
## Security Name State Security Name Sec	## Plane Subsection Subsect	Generator's Name and Mailing Address						nent Numb 11:8	er 	· •
entrator's Phone 6. US EPA ID Number 7. State Transporter's December 10	enterator's Phone 6. US EPA ID Number 7. In Interest Phone 8. US EPA ID Number 8. US EPA ID Number 8. US EPA ID Number 8. IN ID 9 8 0 5 5 4 6 5 3 3D. Tremsporter's Phone 8. IN ID 9 8 0 5 5 4 6 5 3D. Tremsporter's Phone 8. IN ID 9 8 0 5 5 4 6 5 3D. Tremsporter's Phone 8. IN ID 9 8 0 5 5 4 6 5 3D. Tremsporter's Phone 8. IN ID 9 8 0 5 5 4 6 5 3D. Tremsporter's Phone 8. IN ID 9 8 0 5 5 4 6 5 3D. Tremsporter's Phone 9						perator's ID	<u> </u>		
entrator's Phone GSZ Services, Inc. ID 9 9 8 5 5 4 6 5 O. Transporter's Phone GSZ Services, Inc. ID 9 9 8 0 5 5 4 6 5 O. Transporter's Phone SSZ Services, Inc. ID 9 9 8 0 5 5 4 6 5 O. Transporter's Phone GSZ Services, Inc. ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 4 6 5 ID 19 8 0 5 5 5 6 5 ID 19 8 0 5 5 6 6 5 ID 19 8 0 5 5 6 6 5 ID 19 8 0 5 5 7 6 6 5 ID 19 8 0 5 5 7 6 6 5 ID 19 8 0 5 7 7 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	entrator i Phone GSX Services, Inc. ### D 9 9 5 5 4 6 5 8 ### I of Sate Transporter i Phone GSX Services, Inc. ### D 9 9 5 5 4 6 5 8 #### I of Sate Transporter i Phone GSX Services, Inc. #### I of Sate Transporter i Phone GSX	•	Vienna, VA	22130	1)		
SS SETTLESS, INC. ### PP 9 9 5 5 4 6 5 5	AND P 9 8 0 5 5 4 6 5 5 0. Transporter's Phone 301/953-3673 Anaporter 2 Company Name B	senerator's Phone ()	6	LIS EPA ID Numb		HWH I	ALE SUA	2303	oc 347	2
asignated Facility Name and Site Address 10. US EPA ID Number WM	aniporter 2 Company Name B. US EPA ID Number B. State Transporter's ID HIP 19 8 0 15 4 6 5 3 3 0 12 9 5 3 3		。 1 謝		L					_
GSZ Services, Inc. 3527 Whiskey Bottom Road Laurel, ND 20707 H DD 9 8 0 5 4 6 5 3 3 10 11 9 5 13 13 6 7 13 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Descriptions (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Descriptions (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Descriptions (Including Proper Shipping Name, Hazard Class, and ID Number) NO. Type Classification (Including Proper Shipping Name, Hazard Class, and ID Number) HAZARDOW WASTE, LIGNID, NO.3. ORM—E NA 9189 Q Q I M Q Q Q G F Q O 3 A 1 1 1 2 2 4 1 1 2 4 1 2 4 1 1 2 4 1 1 2 4 1 1 2 4 1 1 1 2 4 1 1 1 2 4 1 1 1 1	G.S. Services, Inc. 3527 Whiskey Bottom Road Laurel, M. D. 2070 H. D. D. 9. 9. 5. 3. 6. 7. 3. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) No. Type Clarity Waste No. Waste No	ransporter 2 Company Name	8.	US EPA ID Numb	er	• •	7		DC [] []	ر قائر ا
SST Vinitables Bottom Road Laurel, ND 20707 ND 98 0 5 5 4 6 5 3 3 10 1 9 5 13 3 6 7 3 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 12.	GSX Services, Inc. 3577 Whitskey Botton Road Laurel, ND 20707 ND 98 0 5 5 4 6 5 3 3 0 1 0 9 5 3 3 6 7 3 US DOT Description Including Proper Shipping Name, Hazard Class, and JD Number! No. Type Chamber! No.	Designated Facility Name and Site Addre	ess 10.	. US EPA ID Numb	er	F: Transpor	ter's Phone	Vient 1	र [™] ाव रहाई	r, 7
Lattrel, MD 20707 HDD980554653 30 1 9 3 36 7 3 3 3 3 3 3 3 3 3	Lattrel, MD 20707 MD 9 8 0 5 5 4 6 5 3 0 1 5 2 3 6 7 3				•	•		A207	· :	·
US DOT Description (Including Proper Shipping Name, Hasard Class, and ID Number). WASTE, ORM, N.O. S. ORM-A. NA 1643 ORM-A. NA 1643 ORM-A. NA 1643 ORM-A. NA 1643 ORM-E. NA 1644 FIAMMABLE Liquid D. NA 1643 ORM-E. NA 1644 FIAMMABLE Liquid D. NA 1643 ORM-E. NA 1845 ORM-E. NA 18	US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) No. Type Total WASTE, ORN A, N.O. S ORH-A WASTE PAINT RELATED MITERIAL HAZARDOUS WASTE, LIQUID, N.O. S ORM-E HAZARDOUS WASTE, LIQUID, N.O. S ORM-E NA 9189 ORM-E NA		अ र्व	***		• • •	7 7 16	er error	ro make	• • • •
US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) No. Type Quantity WASTE, ORM, A, N.O.S. ORM, A WASTE, DAINT RELATED MATERIAL FRAMABLE LIGUID NA 1263 HAZARDOW WASTE, LIQUID, N.O.S. NA 9189 QUANTITY ORM, FROM A MATERIAL ADDRESS OF FOOD RESERVED OF THE CONTROL OF	US DOT Description (Including Proper Shipping Name, Hazard Class, and IO Number) NO. Type ORH-A WASTE, DAINT RELATED IMTEGRA FIAMMABLE Liquid HAZARDOUS WASTE, Liquid NO. Seeds HAZARDOUS WASTE, Liquid NO. Seeds NA. 1889 ORM-E NA. 1889	Laurel, ND 20707	<u> </u>	DD98055				<u>5 3 - 3</u>	<u> 3 6 7 3</u>	
ORM-A WATE PAINT RELATED INTEGRAL FAMABLE LIGUID IN NAIZES HAZARDOUS WASTE, LIQUID IN NOS. ORM-E NA 9189 O	ORM-A WASTE, DAINT RELATED MITERIAL FIAHMABLE LIQUID HAZARDOW WASTE, LIQUID, NOS. ORM-E WASTE, LIQUID, NOS. Secial Handling (Instructions and Additional Information WA. # MDD 98055H653-9 GENERATOR'S CERTIFICATION: I hearty declare that the contents of this consignment are fully and accurately, described above by proper shipping name and are classified, packed, marked; and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national accordance or requisitions, and Mayrand Statutes or Regulations, and Suprigued to the degree I have determined to b 3002th of RCAI, also certify that I have a program in place to reduce the volume area to use the contents of the degree of the degree I have determined to b 3002th of RCAI, also certify that I have a program in place to reduce the volume area to use the contents of the degree of the degree I have determined to b 3002th of RCAI, also certify that I have a program in place to reduce the volume area to use the contents of the degree of the degree I have determined to b 3002th of RCAI, also certify that I have a program in place to reduce the volume area to unrently available to me which minimizes the present and future threat to human health and his environment. Printer Typed Name Printer Typed Name Signature Month Day Yes Mont		Shipping Name, Hazard	Class, and ID Number)	_ ['	<u> </u>	Total		Waste No.	· .
FIAMABLE LIQUID NATE N	FAMMBLE LIGUID NATE, LIGUID IN OS A9189 A9	WASTE,ORM-A, N.O.S								`
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ROBERT L. ROLAND VICE PRESIDENT

May 27, 1982

Commonwealth of Virginia Div. of Solid & Hazardous Waste Management 109 Governor Street 23219 Richmond, Virginia

Attention:

Mr. William F. Gilley

Reference:

VA D003241866

Dear Mr. Gilley:

Vega Precision Laboratories has recently studied the current quantities of hazardous chemicals presently being stored and/or disposed of based on our normal production requirements.

Consequently, we have found that Vega does not store or dispose of sufficient quantities of hazardous materials/chemicals to qualify as an approved storage/disposal facility.

Therefore, Vega Precision Laboratories would appreciate your consideration and approval for the reduction in Vega's Classification to that of Small Generator of Hazardous Waste.

Very truly yours,

VEGA PRECISION LABORATORIES Div. of General Indicator Corp.

Roland

Vice President - Administration

RLR: mp

RCRA Checklist Enclosure:

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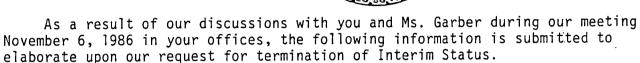
November 17, 1986

Vega Precision Laboratories, Inc@RIGINAL A CompuDyne Company 800 Follin Lane Vienna, VA 22180 (703) 938-6300

Telex: 892521

Ms. Renee C. Tyson
Div. of Solid and Hazardous
Waste Management
Va. State Health Department
101 N. 14th Street
Richmond, VA 23219

Dear Ms. Tyson:



On September 19, 1986 we requested termination of our Interim Status to store hazardous waste, however due to events surrounding the receipt of two (2) drums of paint waste, this facility did, in fact, activate its previous interim status. Accordingly, we now submit closure information as required by regulation to terminate the interim status at this point (enclosed).

The circumstances leading to the above mentioned receipt of paint waste indicate that in the process of terminating our painting operations at a facility leased from the EG&G Corporation at 2818 Tower View Drive, Herndon, Virginia 22070, our employee transported, in a company vehicle, all of Vega's property including the above mentioned barrels of waste. This transport was accomplished without management's knowledge and not with any willful disregard by our employee of any hazardous waste regulations.

The subject waste containers were placed in the area which Vega had previously been authorized to store hazardous waste containers pending shipment by the GSX Corporation. They were immediately inspected by the appropriate Vega personnel and found to be in excellent condition. Absolutely no spillage and/or leakage occured from the moment of arrival to the date of ultimate disposal on September 23, 1986 by the GSX Corporation (copies of manifest and chemical analysis are enclosed).

It is our sincere belief that while a violation did occur in our transport/receipt of this waste, Vega, who has always complied fully with all Waste Management regulations, will continue to fully comply with any and all regulations in the future. We therefore respectfully suggest that our original request for Interim Status termination be honored by your office.

If I can be of any further assistance or if further information is required, please call me.

__Very truly yours,

VEGA PRECISION LABORATORIES, INC.

Robert L. Roland

Vice President - Administration

Encl.

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The following information is submitted as the Vega closure/post closure plan:

- 1. Following arrival of the two (2) steel drums containing paint waste they were immediately inspected and found to be in excellent condition and the bungs were tightly sealed.
- 2. Plastic drum covers were immediately installed over the entire drum top.
- 3. Drums were placed on pallets in the approved and designated area.
- 4. A contents breakdown for both drums was requested from the painter. It was determined to be paints, paint thinner and solvents.
- 5. Material Safety Data Sheets were requested from the manufacturers of the waste products.
- 6. This was followed by a request to our transporter, GSX Corporation, to conduct an identification analysis of the materials.
- 7. Upon receipt of the Analysis reports, we proceeded to prepare the Material Profile Sheet.
- 8. Following this step, arrangements were made for GSX to pickup the subject material as shown on Manifests referenced in our cover letter.
- 9. At all times while this material was in our posession, the barrels were visually checked at least twice each work week. At no time did any leak or spillage occur.
- 10. Immediately following the removal of this material by GSX, the area was again visually checked as well as being swept and hosed down to insure the cleanliness of the area.

Kobert L. Roland

Vice President Administration



COMMONWEALTH of VIRGINIA

ORIGINAL (Red)

CYNTHIA V. BAILEY EXECUTIVE DIRECTOR DEPARTMENT OF WASTE MANAGEMENT James Monroe Building, Eleventh Floor 101 North Fourteenth Street Richmond 23219

MEMORANDUM

TO:

The File

FROM:

Cindy Garber, Chemist

Bureau of Hazardous Waste Management

SUBJECT:

VEGA Precision Laboratories

Vienna, VA 22180

VIRGINIA WASTE MANAGEMENT BOARD

JAMES R. CRAIG BLACKSBURG

JAMES A. DAVIS WINCHESTER

CHRISTOPHER DUERKSEN FREDERICKSBURG

ANDREW HARGROVE .HAMPTON

JOAN MacCALLUM

LYNCHBURG

MICHAEL MARKELS, JR. SPRINGFIELD

FRANK H, MILLER, JR. HAMPTON

On November 6, 1986 Cindy Garber and Renee Tyson met informally with Edward Holt, Personnel Manager, and Robert Roland, Vice-President, of VEGA Precision Laboratories (herein called the Company). The meeting was held to discuss with the Company the procedures necessary for closure of their drum The Company had interim status as a facility for drum storage: storage area. however, the Company had submitted a request for termination of their interim status prior to the storage of waste. Therefore, with the acceptance of waste on-site, the Company had activated its interim status and must follow closure procedures.

The Company explained that the waste (solvents and paint sludge) was generated off-site by Company personnel who were painting a building. The two drums of waste generated were then transported to the Company property and then shipped with a manifest for disposal. A copy of the manifest was left with Cindy Garber and ReneeTyson (herein after called the Bureau).

The Bureau explained the necessity for the submittal of a closure plan. The Company must also submit to the Bureau Certification from Company personnel and from a Professional Engineer that the closure was clean. was also explained to the company. The Company agreed to submit a closure plan and certification of closure. Since the desire to terminate interim status still exists, the Company is also submitting a request for this to occur.

The Bureau will not be assessing any fines nor issuing a consent order. However, the Company was informed that failure to comply with the requested documentation would be a knowing violation that would require punitive action. The Company acknowledged this point. The Company was advised to call the Bureau should there be questions.

A CONTROL OF A CONTROL OF THE PARTY OF THE P

SURVEY SHEET FOR INSPECTION OF HAZARDOUS WASTE FACILITIES

Name of Facility: VEGH FREUSION LHBS
Address: 800 FOLLIN LHNE
VIENNA VA 22180
EPA ID Number: VAD 0032 41 866
Facility Representative: WILLIAM KOLB, ROBERT E. OFFER
Title: PRODUCTION SUPPORT PROCESSES CONTROLLER'S MANHAER
Telephone Number: (703) 938-63//
Inspector's Name: W. E. Lanfold; E.S. Dameon
Title: Area Manager: Environmental Engineer Se
Date of Inspection: MARCH 24, 1989
1. What is the business activity of the firm? (i.e., furniture mfg., metal plating, recycling, etc.)
2. Give a brief description of the waste stream(s) and 1,2,4 hazardous waste code(s). FOOI degrees from assembly area (11/trichlasethane, triffuncatione, 90 ethane 8.9%, methane's gum num remainded). FOO 3/FX/Freon / Acetone Salment degreesing
(Fren 70%, Active 17%, dhane 3% remainder walnum). Door paint shop salvents. Door carbon sensitive for plating process "Fluorestch" (sodium napthalene 30% and monobityl officed other 70%). Door 2 Morganic remvalbath curbon fittation uptim Door ammonium hydroxide salutions and coppurations treatment baths. 3. List the amounts of hazardous waste generated on a monthly basis (use the highest monthly total) and the greatest amount accumulated at the site.
Waste Code Amount Generated Amount Accumulated FOO 15 gal /mc 7.5 gal FOO 10 gal /mc 165 gal DOO paint 10 gal /mo 18 gal DOO other 5 gal /mo 10 gal DOO 2 DOO 8 10 gal /mo 50 gal DOO 2 2.5 gal /mo 10 gal



23 May 1989

Vega Precision Laboratories, Inc. A CompuDyne Company WNIGHAL 800 Follin Lane Vienna, VA 22180-4994 (703) 936-6300 Telex: 892521

(703) 936-6300 Telex: 892521 FAX: (703) 938-6111 FAX: (703) 938-6311

Erica S. Dameron
Environmental Engineer, Senior
Division of Regulation
Department of Waste Management
11th Floor, Monroe Building
Richmond, Virginia 23219

Dear Ms. Dameron:

This letter is to certify that Vega Precision Laboratories, Inc., has completed all necessary actions as required by the approved closure plan dated November 17, 1986.

If you have any additional questions, please contact me at the above address.

Thank you,

VEGA PRECISION LABORATORIES, INC.

Paul A. Prychodnik

Vice President of Manufacturing



Vega Precision Laboratories, Inc. A CompuDyne Company 800 Follin Lane Vienna, VA 22180-4994 (703) 938-6300 Telex: 892521 FAX: (703) 938-6311

6-30-89

Erica S. Dameron
Environmental Engineer Senior
Division of Regulation
Department of Waste Management
11th Floor, Monroe Building
101 N. 14th Street
Richmond, VA 23219

Re: VAD003241866

Dear Ms. Dameron:

As I promised you on your last site inspection, here is the revised facility diagram showing the location of all hazardous waste accumulation areas.

- 1. 5 gal. satellite accumulation container for the Test Dept.
- 2. 5 gal. satellite accumulation container for the Electronic Assembly Area.
- 3. 5 gal. satellite accumulation container for the solder wave machine.
- 4. 5 gal. satellite accumulation container for the Potting and Conformal Coating Area.
- 5. 55 gal. drum accumulation area for solvents used in the vapor degreasing machines.
- 6. Temperature sensitive chemical storage area, currently no hazardous wastes are accumulated here.
- Corrosive materials storage area, all corrosive hazardous wastes are accumulated here.
- 8. Flammable material/Solvent stroage area, all hazardous wastes of these types are accumulated here.

Page 1

- 9. Oxidizer storage area, all hazardous wastes of this type are accumulated here. (Red)
- 10. 55 gal. satellite accumulation container for the Paint shop hazardous wastes.

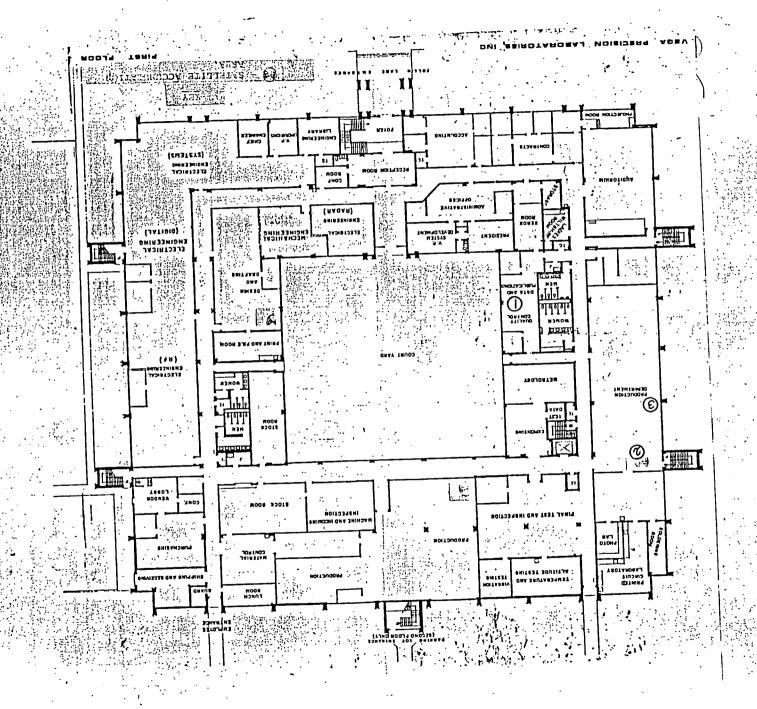
All spill containment equipment is located in the temperature sensitive chemical storage area.

As of today I am no longer employed by Vega Precision Laboratories. The new Hazardous Waste Coordinator is Tim Murphy, Manifacturing Engineer, if you have any further questions please contact him.

It has been a pleasure working with you.

Sincerely,

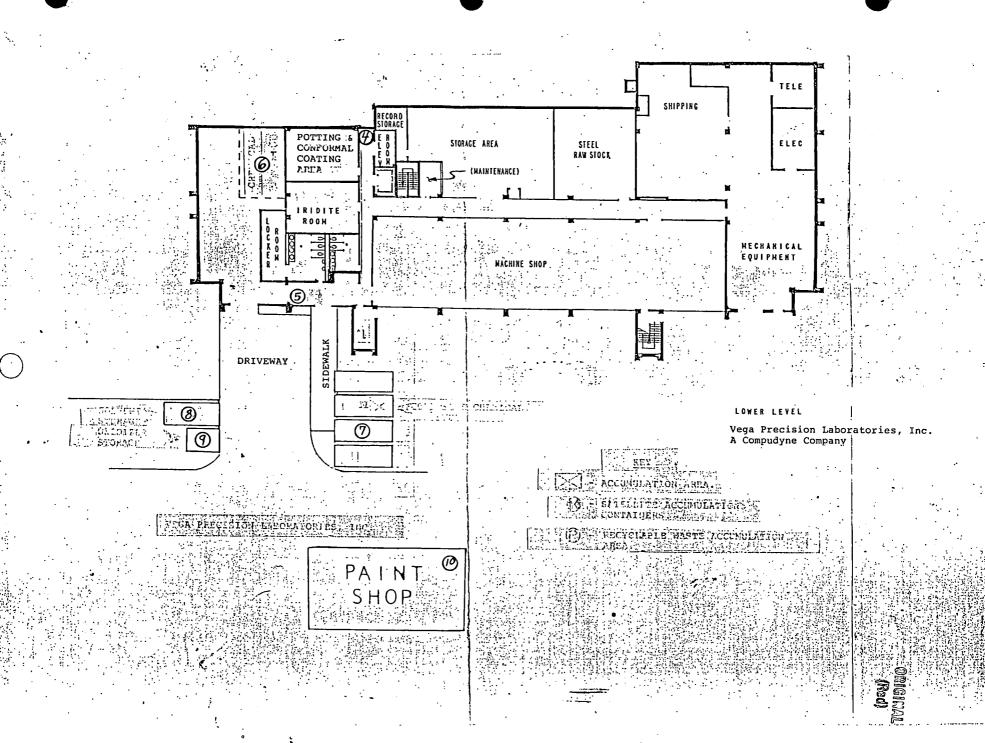
William Kolb



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Appendix E

VPL Response to Original Report

Vega

Vega Precision Laboratories, Inc. A CompuDyne Company 800 Follin Lane Vienna, VA 22180-4994 (703) 938-6300 Telex: 892521 FAX: (703) 938-6311 (Red)

October 5, 1990

Russell A. Dudley
Environmental Program Analyst
Commonwealth of Virginia
Department of Waste Management
Eighteenth Floor Monroe Building
101 North 14th Street
Richmond, VA 23219

REF: Environmental Priority Initiative Preliminary Assessment VA-469 for CompuDyne, Vega Precision Laboratories, Inc.

Dear Mr. Dudley:

Pursuant to our phone conversation this morning the following items provide more detailed information and suggested corrections for Vega Precision Laboratories' EPI Preliminary Assessment.

Item 1 Pg. 2 Sec. 1.3 (para. 1, line 2)

Vega Precision Laboratories, Inc. (VPL) began operation at our current location on April 22nd, 1972.

Item 2 Pg. 2 Sec. 1.3 (para. 2, lines 15-16)

VPL rented space within EG&G Corporations' Herndon facility in order for VPL personnel to accomplish the painting of VPL produced equipment. Cindy Garbers' memo on the November 6th, 1986 meeting with VPL executives (Appendix D) erroneously states that VPL personnel painted EG&Gs' building.

Item 3 Pg. 6 Sec. 4.1 (para. 1)

VPL manufactures radar transponders, command and control systems, antennas, and special test equipment for government and commercial customers throughout the world. VPLs' equipment primarily provides tracking and remote control for airborne vehicles.

* Enclosed are brochures that depict VPL, our product line, and customer base. Keep in mind that several of the facility photos show chemical processes, involved in manufacturing printed

circuit boards, which no longer exist at this facility.

Item 4 Pg. 6 Sec. 4.1-Text

I suggest replacing the word " transbonder " (transponder) whereal it appears throughout the text with the word equipment. (Red)

Item 5 Pg. 6 Sec. 4.1 (para. 3, lines 8-11)

The mechanical assembly area combines printed circuit board assemblies along with numerous other subassembly components into functional equipment packages. Operations conducted in the mechanical assembly area include bonding, marking, wiring, fastening, etc.

* The injection molding of Eccofoam takes place only in the potting area of the paint shop.

Item 6 Pgs. 6-7 Sec. 4.1 (para. 3, lines 13-17)

Line 12 of the Eccofoam use description should be changed to read " is used in the potting area of the paint shop by " and the entire sentence move to the end of paragraph 1 on page 7.

Item 7 Pg. 7 Sec. 4.1 (para. 1, line 15-16)

Exhausted chromic acid solutions are pumped from the processing tanks into fifty five-gallon plastic drums and stored in the corrosive chemical storage container (SWMU #7) until picked-up by Laidlaw Environmental Services.

<u>Item 8</u> Pg. 8 Sec. 4.2a, SWMU #3

Consists of a five-gallon metal container used to store waste Humiseal, contents estimated to be:

Acrylic Resin 40-50%
Polyurethane Resin 40-50%
Surfactants < 5%
Aromatic Solvent 2%
Ketone Solvent 1%
Ester Solvent 1%

Item 9 Pg. 10 Sec. 4.2a, SWMU #6 (line 2)

" used in the trucking industry for maritime transportation. "

Item 10 Pg. 10 Sec. 4.2b, SWMU #1

This was were the five-gallon container used to collect Dynasolve 170/Eccofoam (see 4.2a SWMU #1) was kept when the subassembly

test/repair section was located in this area. There was not a ORIGINAL SWMU for ink.

Item 11 References

Kolb

If I can be of any further assistance please contact me at (703) 938-6300 extension 509.

Sincerely,

William Kolb

Associate Engineer

Vega Precision Laboratories, Inc.